Each

Friday, 02/05/2008 7:03:27 AM User: Customer Job Number **Estimate Number** P.O. Number This Issue Prsht Rev. First Issue **Previous Run** Written By Comment **Additional Product** Job Number: Seq. #: 1.0 2.0 4.0

Linda Lacelle **Process Sheet** : TUBE AASEMBLY : CU-DAR001 Dart Helicopters Services **Drawing Name** : 38974 : 10108 : D2003031 **Part Number** : UNDER REVIEW : 02/05/2008 S.O. No. : **Drawing Number** : N/A : NC **Project Number** : B : SMALL /MED FAB : // Type **Drawing Revision** ; 37912 Material **Due Date** : 09/05/2008 Qty: 5 Um: Checked & Approved By : Rev Est:B 00.01.12 Re-format EC Description: **Machine Or Operation:** DOCUMENT CONTROL DÇ Comment: DOCUMENT CONTROL AND 8.5.12 type labels per PPP D2003-031 M304TR0500W035 304 RD Tube .500 x .035W 5x /5,380" Comment: Qty.: 1.3451 f(s)/Unit Total: 6.7253 f(s) Batch: M10796 Material:1/2"Æ x 0.035" wall AISI 304 SS tubing Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Form tube as per template D2003-031 INSPECT WORK TO CURRENT STEP

Comment: INSPECT WORK TO CURRENT STEP 5.0

Firesleeve-crkl .375IDia

Comment: Qty.: 1.2768 f(s)/Unit Total : 6.3840 f(s)

Material: M2650-6 Heat sleeve Batch: M10678/ ×4 M107746X1

Page 1

## **Dart Aerospace Ltd**

W/O:	WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
				møld.					

art No: <u>D2003-031</u>	PAR #:	_ Fault Category: <u>Prod</u>	FAB 1955' mad	NCR: Yes No	DQA: D	Date: 28/05//
				QA: N/C C	losed: D	Date: 09/0.5/15

NCR: 3	3974	W	ORK OR	DER NON-CONFORMANCE	(NCR)			,
DATE	STEP	Description of NC		Corrective Action Section B	Cian 9	Verification	Approval	Approval
DAIL		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
08/05/12	3	Bad Berd on two		replace by new one QH (2)	1/2/12			
		-	Josul 2	M 107967	18/0/1	08/05/12	Pasiulz	odeste
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•Friday, 02/05/2008 7:03:27 AM Date: User: Linda Lacelle **Process Sheet Drawing Name: TUBE AASEMBLY** Customer: CU-DAR001 Dart Helicopters Services Job Number: 38974 Part Number: D2003031 Job Number: Seq. #: **Machine Or Operation:** Description: MS208198J 6.0 Sleeve Comment: Qty.: 2.0000 Each(s)/Unit Total: 10.0000 Each(s) Pick: **Qty Part Number** Description M107799 2 MS20819-8J Sleeve 7.0 AN8188J Comment: Qty.: 2.0000 Each(s)/Unit Total: 10.0000 Each(s) Pick: Oty Part Number Description M106074 X4 M107959 X6 2 AN818-8J 8.0 D2182045 1.0000 Each(s)/Unit Total: 5.0000 Each(s) Comment: Qty.: Me D2/82-070) XZ B17067 Pick: Description Batch **Qty Part Number** 1 D2182-045 Heat shrink SMALL & MEDIUM FAB RESOURCE 1 9.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 1-Cut 304SS Tube as per template D2003-031 (15.38" long) 2-Cut: Heat Sleeve 14.60" long as per Dwg D2003 3-Assemble as per Dwg D2003 10.0 INSPECT WORK TO CURRENT STEP Comment: INSPECT WORK TO CURRENT STEP PACKAGING 1 11.0 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location:

Dart Ae	rospace Lt	td							
W/O:		101-1-24-1-24-1-24-1-24-1-24-1-24-1-24-1	W	ORK ORDER CHANGES					
DATE	STEP	PRO	OCEDURE CHA	NGE .	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory: NC				Date:	
NCR:			WORK ORD	ER NON-CONFORMANC					
		Description of NC		Corrective Action Section B		Verifica	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Sectio		Chief Eng	QC Inspector
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Date:

•Friday, 02/05/2008 7:03:28 AM

User:

Linda Lacelle

Process Sheet

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Drawing Name: TUBE AASEMBLY

Job Number: 38974

Part Number: D2003031

Job Number:



Seq. #:

**Machine Or Operation:** 

Customer: CU-DAR001 Dart Helicopters Services

Description:

12.0

QC21

FINAL INSPECTION/W/O RELEASE



08/05/14/

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



N 08.05.13

## Dart Aerospace Ltd

W/O:		**************************************	WORK ORDER	CHANGES					
DATE	STEP	PROCEI	DURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						•			
Part No	•	PAR #:	Fault Category:	NC	R: Yes	No DC	A:	Date:	
					QA: N	N/C Close	ed:	_ Date: _	
NCR:		WOI	RK ORDER NON-CON	FORMANC	E (NC	₹)			,
		Description of NC	Corrective Actio	on Section B		Vorifi	ication	Annroval	Annroyal

NCR:			WORK ORDI	ER NON-CONFORMANO	CE (NCR)			
		Description of NC		Corrective Action Section B	Verification	Annroval	Ammrayal	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspecto
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	4	16	1 47	D2003 SHEET 1 OF 2
	DATE	,		TITLE SCALE
	99.0	06.08		206 CABIN HEATER TUBE ASSEMBLIES NTS
	Α		90.04.09	NEW ISSUE
	В		99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)



CC.08.21 CB Tenyths wrong

W038974

				,		,				<u>, ì </u>		
		HEATSLEEVE LENGTH	CUT LENGTH OF TUBE <sup>2</sup>	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	DF00	MATERIAL 4/8/7	VENDOR OR
P/N	TEMPLATE	ļ			<u> </u>					DESC.	MATERIAL 4/8/7	SPEC
D2003-001	T2003-001	5.2	6.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62				L	2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19.63					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	12.38	12.44			ļ		2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-011	33.31	32.38		<u> </u>	<u> </u>	<u> </u>	2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	T2003-013	12.7	13.54	ļ		L	<u> </u>	2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00				<u> </u>	2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	17.0	16.25		l			2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0,500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-021	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10.60			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18,00			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-031 -	-T2003-031 -	14.6	15.38	-2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-037	T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50	2.44	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34,00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-077	T2003-077	N/A	6.25		~			1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-077	13.25	13.13				<u> </u>	2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-101	T2003-101	12.38	12.00			<b></b>		2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60				<b>-</b>	2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-107	8.25	8.125			2	2		-	TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	4.75	4.625			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-111	4.0	4.020						<del></del>	HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-110	T2003-170	4.0		-	<b></b>	<del> </del>		<b></b>		HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0								HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0			<b></b>				-	HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-10	T2003-18	9.75	9.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-203	T2003-203	3.75	3.75					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2000-201	, 2000-201	3.73	3.73							TODE ASS T	3031-10 0.373 OD X 0.003 W	1111-1-70070
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<b>Dart Aerospace Ltd</b>	Da	art	Aer	os	pac	e l	Ltd
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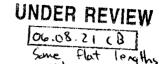
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NCR:			WORK ORDE	ER NON-CONFORMA	NCE (NCR	2)			
DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector





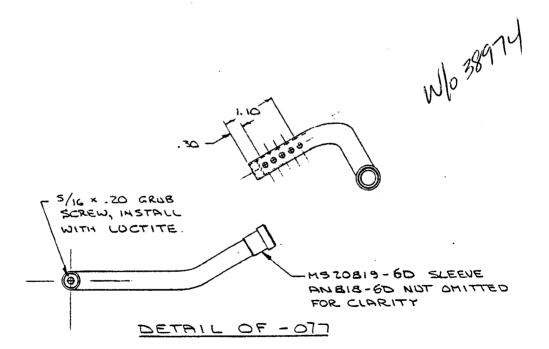
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1 46	14	D2003	SHEET 2 OF 2
DATE	<u> </u>	TITLE	SCALE
99.06.08		206 CABIN HEATER	TUBE ASSEMBLIES NTS





## Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.



Dart Aerospa	ace Ltd
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W/O:		WORK ORDER CHANGES						
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	):	PAR #:	Fault Category:	NCR: Yes	No DO	Δ.	Date:	

Part No:	PAR #:	Fault Category:	NCR: Yes N	lo <b>DQA</b> :	Date:
			QA: N/	C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC	Corrective Action Section B			Verification	Annroyal	Annroyal	
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector	
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